

quiz

1. Hallar el mínimo como un múltiplo entre:

$$* 24 \text{ y } 28 \quad * 18 \text{ y } 36$$

$$* 15 \text{ y } 35$$

2. ~~Hallar el m~~ Hallar el máximo como un divisor entre:

$$* 24 \text{ y } 32 \quad * 12 \text{ y } 18$$

$$* 36 \text{ y } 48$$

Solución

1. Primer método:

$$m_{24} = [24, 48, 72, 96, 120, 144, 168, 192, \dots]$$

$$m_{28} = [28, 56, 84, 112, 140, 168, 196, \dots]$$

$$m(m) = (24 \text{ y } 28) = 168$$

Segundo método

| | |
|----|---|
| 24 | 2 |
| 12 | 2 |
| 6 | 2 |
| 3 | 3 |
| 1 | |

| | |
|----|---|
| 28 | 2 |
| 14 | 2 |
| 7 | 4 |
| 1 | |

$$2 \times 2 + 2 \times 3 = 24$$

$$2 \times 2 + 7 = 28$$

1. primer metodo

$M_{15} = [15, 30, 45, 60, 75, 90, 105, 120, 135, \dots]$

$M_{35} = [35, 70, 105, 140, 175, 210, 245, 280, 315, \dots]$

$$MCM = [15 + 35] = 105$$

segundo metodo

| | |
|----|---|
| 15 | 3 |
| 5 | 5 |
| 1 | |

| | |
|----|---|
| 35 | 5 |
| 7 | 7 |
| 1 | |

$$15 \begin{array}{l} 3 \\ \hline 05 \end{array}$$

$$35 \begin{array}{l} 5 \\ \hline 57 = 35 \end{array}$$

$$3 \times 5 = 15$$

$$5 \times 7 = 35$$

1. primer metodo:

$M_{18} = [18, 36, 54, 72, \dots]$

$M_{36} = [36, 72, 108, \dots]$

$$MCM = (18 + 36) = 36$$

segundo metodo

| | |
|---|---|
| 7 | 2 |
| 9 | 3 |
| 3 | 3 |
| 7 | |

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| | |
|---|---|
| 8 | 6 |
| 7 | 2 |
| 9 | 3 |
| 3 | 3 |
| 7 | |

67219X3=26

2. primer metodo

$D_{24} = [7, 2, 9, 10, 8, 70, 24]$

$D_{32} = [7, 2, 9, 70, 32]$

$MCD = [24, 32] = 4$

segundo metodo

| | |
|----|---|
| 24 | 2 |
| 72 | 2 |
| 6 | 3 |
| 3 | 3 |

| | |
|----|---|
| 32 | 2 |
| 16 | 2 |
| 8 | 2 |
| 4 | 2 |
| 2 | 2 |
| 1 | |

2º primer metodo

$$D_{36} = [1, 2, 3, 4, 6, 9, 12, 18, 36]$$

$$D_{48} = [1, 2, 3, 4, 6, 8, 12, 16, 24, 48]$$

$$MCD = (36 \text{ y } 48) = 12$$

segundo metodo

| | | |
|----|--|---|
| 36 | | 2 |
| 18 | | 2 |
| 9 | | 3 |
| 3 | | 3 |
| 1 | | |

| | | |
|----|--|---|
| 48 | | 2 |
| 24 | | 2 |
| 12 | | 2 |
| 6 | | 2 |
| 3 | | 3 |
| 1 | | |

2º primer metodo

$$MCD = [12 \text{ y } 18] = 6$$

$$D_{12} = [1, 2, 3, 4, 6, 12]$$

$$D_{18} = [1, 2, 3, 6, 9, 18]$$

segundo metodo:

| | | |
|----|--|---|
| 12 | | 2 |
| 6 | | 2 |
| 3 | | 3 |
| 1 | | |

| | | |
|----|--|---|
| 18 | | 2 |
| 9 | | 3 |
| 3 | | 3 |
| 1 | | |